

09779331

NEWS 40 May 19 Simultaneous left and right truncation added to WSCA  
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and  
right truncation  
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB  
NEWS 43 Jun 06 PASCAL enhanced with additional data

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
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FILE COVERS 1907 - 14 Jun 2003 VOL 138 ISS 25  
FILE LAST UPDATED: 13 Jun 2003 (20030613/ED)

This file contains CAS Registry Numbers for easy and accurate  
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=> s JP 5365865/pn

09779331

L1 0 JP 5365865/PN  
(JP5365865/PN)

=> s JP 65865/pn

L2 0 JP 65865/PN  
(JP65865/PN)

=> s JP 51-140578/pn

L3 0 JP 51-140578/PN  
(JP51140578/PN)

=> s gb 1570597/pn

L4 1 GB 1570597/PN  
(GB1570597/PN)

=> d l4 ibib hitstr

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1977:584771 CAPLUS

DOCUMENT NUMBER: 87:184771

TITLE: 16.beta.-Alkylestradiol derivatives

INVENTOR(S): Miki, Takuichi; Hiraga, Kentaro; Goto, Giichi

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Ger. Offen., 24 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2653558	A1	19770608	DE 1976-2653558	19761125
JP 52065259	A2	19770530	JP 1975-142509	19751127
JP 61044878	B4	19861004		
GB 1570597	A	19800702	GB 1976-49180	19761125 <--
FR 2332999	A1	19770624	FR 1976-35824	19761126
FR 2332999	B1	19790406		
CA 1076102	A1	19800422	CA 1976-266709	19761126
CH 629221	A	19820415	CH 1976-14943	19761126
PRIORITY APPLN. INFO.:			JP 1975-142509	19751127

=> s 16beta-ethylestradiol

4 16BETA

42 ETHYLESTRADIOL

L5 0 16BETA-ETHYLESTRADIOL  
(16BETA(W) ETHYLESTRADIOL)

=> s 16 beta-ethylestradiol

700644 16

1194130 BETA

42 ETHYLESTRADIOL

L6 7 16 BETA-ETHYLESTRADIOL  
(16(W) BETA(W) ETHYLESTRADIOL)

=> s 16 beta-n-butylestradiol

09779331

700644 16  
1194130 BETA  
2585772 N

L7 1 BUTYLESTRADIOL  
0 16 BETA-N-BUTYLESTRADIOL  
(16(W) BETA(W) N(W) BUTYLESTRADIOL)

=> s 16 beta-butyloestradiol

700644 16  
1194130 BETA

L8 1 BUTYLESTRADIOL  
0 16 BETA-BUTYLESTRADIOL  
(16(W) BETA(W) BUTYLESTRADIOL)

=> s butylestradiol

L9 1 BUTYLESTRADIOL

=> d 19 ibib hitstr abs

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1957:51924 CAPLUS

DOCUMENT NUMBER: 51:51924

ORIGINAL REFERENCE NO.: 51:9659i, 9660a-i, 9661a

TITLE: 17-Alkyl-19-nortestosterones

AUTHOR(S): Colton, Frank B.; Nysted, Leonard N.; Riegel, Byron;  
Raymond, Albert L.

CORPORATE SOURCE: G. D. Searle & Co., Chicago

SOURCE: J. Am. Chem. Soc. (1957), 79, 1123-7

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB 17-Ethynyl-19-nortestosterone (8.6 g.) in 350 cc. dry dioxane hydrogenated over 1.1 g. 5% Pd-C until 2 moles H were absorbed, filtered, and evapd. to dryness in vacuo, and the residue chromatographed with 20-30% EtOAc in C<sub>6</sub>H<sub>6</sub> on 450 g. silica gel yielded 6.12 g. 17-ethyl-19-nortestosterone (I), m. 137-8.degree. (from aq. MeOH), [ $\alpha$ ]<sub>D</sub> 25.degree. (c 1, CHCl<sub>3</sub>). A slow stream of C<sub>2</sub>H<sub>2</sub> passed over the surface of a stirred soln. of 5.0 g. K in 100 cc. Me<sub>3</sub>COH and 100 cc. dry Et<sub>2</sub>O at 0.degree. until satd., treated with 5.0 g. Me estrone, the addn. of C<sub>2</sub>H<sub>2</sub> continued 3-4 hrs. at 0.degree., the mixt. kept 18 hrs. at room temp., treated with 100 cc. 10% aq. NH<sub>4</sub>Cl, steam distd., and filtered, and the residue crystd. from Me<sub>2</sub>CO gave 5.1 g. 17-ethynylestradiol 3-Me ether (II), m. 150-1.5.degree.. II (5.0 g.) in 75 cc. purified dioxane hydrogenated over 0.5 g. 5% Pd-C until 2 moles H was absorbed, filtered, and evapd. to dryness in vacuo yielded 4.8 g. 17-ethylestradiol 3-Me ether (III), m. 85-7.degree. (from Me<sub>2</sub>CO-petr. ether). III (4.0 g.) in 100 cc. dry Et<sub>2</sub>O and 300 cc. liquid NH<sub>3</sub> stirred 1 hr. with 4.0 g. Li, treated dropwise during 1.5 hrs. with 30 g. EtOH dild. with an equal vol. of dry Et<sub>2</sub>O while using an addnl. 100 cc. dry Et<sub>2</sub>O to wash the sides of the flask during the EtOH addn., the NH<sub>3</sub> evapd. with gentle warming, the mixt. dild. with 100 cc. cold H<sub>2</sub>O, and the product isolated by extn. gave 3.4 g. 17-ethyl-1,4-dihydroestradiol 3-Me ether (IV), m. 126-8.degree. (from Et<sub>2</sub>O-MeOH). IV (1.25 g.) in 20 cc. MeOH refluxed 5 min. with 2.2 cc. glacial AcOH and dild. with 100 cc. H<sub>2</sub>O gave 1.15 g. 17.alpha.-ethyl-17-hydroxy-5(10)-estren-3-one, m. 134-6.degree. (from Me<sub>2</sub>CO-petr. ether). IV (2.0 g.) added with stirring to 2.4 cc. concd. HCl and 1.6 cc. H<sub>2</sub>O in 36 cc. MeOH, allowed to stand 2 hrs. at room temp., and filtered gave 1.7 g. I, m. 136-9.degree. (from Me<sub>2</sub>CO-petr.

ether). 17-Octynylestradiol 3-Me ether (3.0 g.) in 75 cc. purified dioxane hydrogenated over 0.5 g. 5% Pd-C until 2 moles H was absorbed, filtered, and evapd., and the residue triturated with MeOH gave 1.9 g. 17-octylestradiol 3-Me ether (V), m. 79-81.degree., [.alpha.]D 40.degree. (c 1.25, CHCl<sub>3</sub>). V (1.5 g.) subjected to a Birch reduction gave 1.2 g. solvated cryst. material which became amorphous on drying in vacuo; the amorphous material cleaved and isomerized in the usual manner yielded 0.8 g. 17-octyl-19-nortestosterone, m. 120-2.degree. (from aq. MeOH). II (4.0 g.) reduced in the usual manner yielded 3.1 g. 3-methoxy-19-norpregna-2,5(10),17-(20)-triene (VI), m. 111-12.degree.. VI (1.0 g.) isomerized in the usual manner with HCl gave 0.76 g. 19-norpregna-4,17-(20)-dien-3-one, m. 124-5.degree.. Mg (8.5 g.) (activated with iodine) covered with 200 cc. dry Et<sub>2</sub>O, treated dropwise with 5.0 g. CH<sub>2</sub>:CHCH<sub>2</sub>Br in 20 cc. dry Et<sub>2</sub>O, and then during 45 min. with 20.0 g. estrone Me ether in 95 g. CH<sub>2</sub>:CHCH<sub>2</sub>Br and 400 cc. Et<sub>2</sub>O, refluxed 2.5 hrs., cooled, and treated with 500 cc. 10% aq. NH<sub>4</sub>Cl, and the Et<sub>2</sub>O layer worked up yielded 18.4 g. 17-allylestradiol 3-Me ether (VII), m. 91-1.5.degree. (from Et<sub>2</sub>O-petr. ether), [.alpha.]D 57.4.degree. (c 1.02, CHCl<sub>3</sub>). VII (11.5 g.) in 200 cc. EtOH hydrogenated over 5 g. 5% Pd-C until 1 mole H had been absorbed, filtered, and evapd. in vacuo yielded 10.1 g. 17-propylestradiol 3-Me ether (VIII), m. 93-4.degree. (from Et<sub>2</sub>O-MeOH), [.alpha.]D 47.7.degree.. VIII (6.0 g.) reduced with Li in NH<sub>3</sub> gave 4.7 g. 17-propyl-1,4-dihydroestradiol 3-Me ether (IX), m. 150-2.degree., [.alpha.]D 105.degree. (c 1.16, CHCl<sub>3</sub>). VII (5.0 g.) hydrogenated in dioxane over 5% Pd-C yielded 4.0 g. IX, m. 149-51.degree.. IX (1.0 g.) in MeOH heated with glacial AcOH gave 0.8 g. 17.alpha.-propyl-17-hydroxy-5(10)-estren-3-one, m. 90.0-1.5.degree.. IX (1.8 g.) cleaved and isomerized in the usual manner yielded 1.4 g. 17-propyl-19-nortestosterone, m. 122-3.degree., [.alpha.]D 21.degree. (c 0.98, CHCl<sub>3</sub>). 1,4-Dihydroestradiol 3-Me ether (25 g.) in 242 cc. cyclohexane and 860 cc. PhMe refluxed 2 hrs. with 25 g. (iso-PrO)Al in 347 cc. PhMe, treated dropwise during 10 min. with 169 cc. satd. aq. Rochelle salt, and steam distd., the aq. distn. residue filtered, and the solid product triturated with 100 cc. MeOH and cooled to 0.degree. gave 21.0 g. 1,4-dihydroestrone 3-Me ether (X), m. 141-1.5.degree. (from MeOH). Mg (1.7 g.) (activated with iodine) treated with 9.0 g. CH<sub>2</sub>:CHCH<sub>2</sub>Br in 100 cc. Et<sub>2</sub>O, refluxed 15 min., treated with 2.0 g. X in 100 cc. Et<sub>2</sub>O, refluxed 1.5 hrs., and treated slowly with 100 cc. 10% aq. Rochelle salt, the Et<sub>2</sub>O layer worked up, the residue dissolved in 40 cc. MeOH, 1.5 cc. concd. HCl, and 5 cc. H<sub>2</sub>O, kept 2 hrs. at room temp., and dild. with 200 cc. cold H<sub>2</sub>O, and the crude ppt. chromatographed on 150 g silica gel yielded 1.1 g. 17-allyl-19-nortestosterone, m. 93-5.degree.. 1-Octyne (24 g.) in 125 cc. dry Et<sub>2</sub>O stirred 1 hr. at 0.degree. with 7.8 g. EtMe<sub>2</sub>COK (from 7.8 g. K), treated with 5.7 g. estrone Me ether, warmed to room temp., stirred 24 hrs., and treated with 150 cc. 10% NH<sub>4</sub>Cl, the org. layer worked up, and the residue chromatographed with 0.5% C<sub>6</sub>H<sub>6</sub> in CHCl<sub>3</sub> on silica gel gave 4.6 g. 17-octynylestradiol Me ether, oil. BuLi (from 9.0 cc. BuBr and 0.67 g. Li) added with stirring to 1.65 g. estrone Me ether in 40 cc. dry Et<sub>2</sub>O, stirred 1 hr., decompd. with MeOH and dil. H<sub>2</sub>SO<sub>4</sub>, and dild. with Et<sub>2</sub>O, the Et<sub>2</sub>O layer worked up, and the residue chromatographed with 20% Skellysolve A in C<sub>6</sub>H<sub>6</sub> on 100 g. Al<sub>2</sub>O<sub>3</sub> gave 426 mg. 17-butylestradiol 3-Me ether (XI), m. 52-5.degree. partially solidified and remelted at 92-4.degree.. XI subjected to a Birch reduction, cleaved and rearranged, and the crude product chromatographed with 20% EtOAc in C<sub>6</sub>H<sub>6</sub> on 35 g. silica gel yielded 118 mg. 17-butyl-19-nortestosterone, m. 126-7.degree. (from aq. MeOH).

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=>

=> d 16 1-7 ibib hitstr abs

L6 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:417462 CAPLUS  
DOCUMENT NUMBER: 122:170182  
TITLE: Therapeutics for treatment of osteoporosis  
INVENTOR(S): Miki, Shuji; Kanehira, Koichi; Matsumoto, Toshio  
PATENT ASSIGNEE(S): Kuraray Co, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06312930	A2	19941108	JP 1993-128036	19930430

PRIORITY APPLN. INFO.: JP 1993-128036 19930430

AB The title therapeutic compns. (e.g. tablets) contain progestogens and estrogen antagonists as active ingredients. Administration of progesterone (I) and 16.beta.-ethylestradiol (II) at 25 mg/kg and 50 .mu.g/kg, resp., s.c. for 2 wk to bone morphogenetic protein-treated rats resulted in bone mineral increase by 60%, vs. -6% or 14%, resp. for I or II alone.

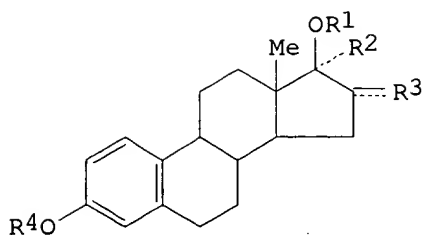
L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1992:598537 CAPLUS  
DOCUMENT NUMBER: 117:198537  
TITLE: Bone resorption inhibitors containing estradiols  
INVENTOR(S): Miki, Takuichi; Kumazuki, Takamaru; Yamazaki, Iwao; Goto, Giichi  
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04145024	A2	19920519	JP 1990-268575	19901005

PRIORITY APPLN. INFO.: JP 1990-268575 19901005

OTHER SOURCE(S): MARPAT 117:198537  
GI



AB Bone resorption inhibitors, which are useful for treatment of osteoporosis and less assocd. with adverse effects, contain estradiols I (R1 = H, alkyl, acyl; R2 = H, alkyl, alkynyl; R3 = alkyl, alkenyl, alkynyl, cyclic hydrocarbonyl; R4 = H, cardiocarbonyl; the dot line attached to R3 may be bond), their salts, or esters. **16.beta.-**

**Ethylestradiol** (II) at 10 .mu.g/mL inhibited 74.7% resorption of Ca by rat embryo bone, vs. 81.0%, for estradiol. Administration of II at 20 .mu.g/kg to oophorectomized rats did not affect wt. of uterus, vs. severe wt. increase, when estradiol at 0.2 .mu.g/kg was administered instead. Tablets were formulated contg. II 5, lactose 25, starch 98, CMC Ca 20, and Mg stearate 2 g. Several I were prepd.

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:527546 CAPLUS

DOCUMENT NUMBER: 115:127546

TITLE: Glucocorticoids suppress and estrogens enhance the lipopolysaccharide-induced increase in putrescine and N1-acetylspermidine in mouse liver

AUTHOR(S): Sugimoto, Hiroyuki; Hamana, Koei; Matsuzaki, Shigeru; Arai, Takayuki; Yamada, Shoji

CORPORATE SOURCE: Inst. Endocrinol., Gunma Univ., Maebashi, 371, Japan

SOURCE: Journal of Steroid Biochemistry and Molecular Biology (1991), 38(6), 781-6

CODEN: JSBBEZ; ISSN: 0960-0760

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Administration of lipopolysaccharide (LPS) to mice increases hepatic levels of putrescine (PUT) and N1-acetylspermidine (N1-acetyl-SPD). The in vivo effects of steroid hormones on the LPS-induced increase in PUT and N1-acetyl-SPD were studied in mice. Corticosterone, hydrocortisone, and dexamethasone suppressed the LPS-induced increase in PUT and N1-acetyl-SPD in the liver in a dose-dependent manner, dexamethasone being the most effect among them. Estrone and estradiol-17.beta. enhanced the LPS-induced increase in PUT and N1-acetyl-SPD in a dose-dependent manner. Estradiol-17.alpha. and 16.beta.-ethyl-estradiol, an inactive estradiol isomer and an antiestrogen, resp., enhanced the increase in PUT and N1-acetyl-SPD concns. induced by LPS. Estriol 16.alpha.-hydroxyesterone, 2-hydroxyestradiol, 2-hydroxyesterone, progesterone, testosterone, diethylstilbestrol, and nonsteroidal antiestrogens such as tamoxifen and nafoxidine had no effect on the increase. Estradiol-17.beta. enhanced and corticosterone had little effect on the carbon tetrachloride-induced increase in PUT and N1-acetyl-SPD. Glucocorticoids may suppress the increase by preventing the immunol. injury by Kupffer cells on hepatocytes. The stimulatory effect of estrogens may not be assocd. with their estrogenic activities mediated by the estrogen receptor system.

L6 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS

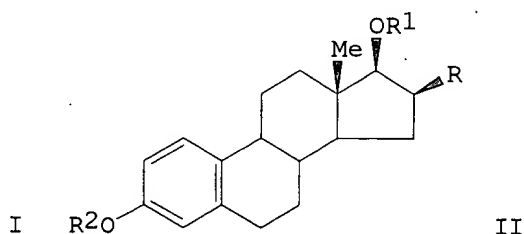
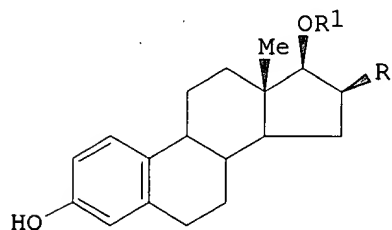
ACCESSION NUMBER: 1979:572408 CAPLUS  
 DOCUMENT NUMBER: 91:172408  
 TITLE: Influence of intrahypothalamic implants of  
 antiestrogen or aromatase inhibitor on development of  
 sterility following neonatal androgenization in female  
 rats  
 AUTHOR(S): Hayashi, Shinji  
 CORPORATE SOURCE: Endocrinol. Div., Natl. Cancer Cent. Res. Inst.,  
 Tokyo, 104, Japan  
 SOURCE: Journal of Steroid Biochemistry (1979), 11(1B), 537-41  
 CODEN: JSTBBK; ISSN: 0022-4731  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Paraffin micropellets contg. **16.beta.-ethylestradiol** (EED), an antiestrogen or 1,4,6-androstatriene-3,17-dione (ATD), an aromatase inhibitor, implanted directly into the hypothalamus of neonatal female rats 6 h prior to a single s.c. injection of testosterone propionate (TP). The antagonists did not impair the sterilizing action of TP but enhanced the induction of sterility. In contrast, intrahypothalamic implantation of paraffin micropellets contg. 1% TP together with 50% MER-25, an antiestrogen, brought about a suppression of sterility induction. The reasons why intrahypothalamic implants of antiestrogen or aromatase inhibitor failed to suppress the sterilizing effect of TP s.c. injected are discussed.

L6 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1978:597804 CAPLUS  
 DOCUMENT NUMBER: 89:197804  
 TITLE: Estradiol derivatives  
 INVENTOR(S): Miki, Takakazu; Hiraga, Kentaro; Goto, Yoshikazu  
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53065865	A2	19780612	JP 1976-140578	19761123
PRIORITY APPLN. INFO.: GI			JP 1976-140578	19761123



AB Fourteen estradiol derivs. I (R = alkyl; R1 = H, acyl) were prepd. by ether cleavage or deacylation of II (R2 = alkyl, acyl). I had antiestrogen activity (no data). Thus, a mixt. of 1 g **16**.

**beta.-ethylestradiol** 3-Me ether and 1.3 g pyridinium chloride was heated 2 h at 150.degree. to give **16.beta** **.-ethylestradiol**.

L6 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1978:437039 CAPLUS

DOCUMENT NUMBER: 89:37039

TITLE: The competitive action of **16.beta** **.-ethylestradiol** on the binding of estrogen receptor in human breast cancer

AUTHOR(S): Takikawa, H.

CORPORATE SOURCE: Inst. Endocrinol., Gunma Univ., Maebashi, Japan

SOURCE: Research on Steroids (1977), 7, 291-9

CODEN: RSTEBF; ISSN: 0370-7466

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The cytosol receptor for estrogen was isolated and purified from human mammary gland samples. Most of the 16-substituted estradiols had no effect on binding of 17.beta.-estradiol [50-28-2] but **16**.

**beta.-ethylestradiol** [62633-99-2] inhibited binding strongly. Synthetic estrogens inhibited the binding as did synthetic antiestrogens. From the compds. tested, the binding affinity was diminished if a phenolic hydroxyl group on C 3 or an alc. hydroxyl group on C 17 was substituted; if both groups were substituted the activity was abolished.

L6 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1977:584771 CAPLUS

DOCUMENT NUMBER: 87:184771

TITLE: 16.beta.-Alkylestradiol derivatives

INVENTOR(S): Miki, Takuichi; Hiraga, Kentaro; Goto, Giichi

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Ger. Offen., 24 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

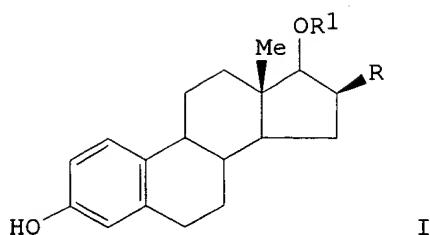
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2653558	A1	19770608	DE 1976-2653558	19761125
JP 52065259	A2	19770530	JP 1975-142509	19751127
JP 61044878	B4	19861004		
GB 1570597	A	19800702	GB 1976-49180	19761125
FR 2332999	A1	19770624	FR 1976-35824	19761126
FR 2332999	B1	19790406		
CA 1076102	A1	19800422	CA 1976-266709	19761126
CH 629221	A	19820415	CH 1976-14943	19761126
PRIORITY APPLN. INFO.:			JP 1975-142509	19751127
GI				





AB Eight antiestrogenic 16.beta.-alkylestradiols I (R = Et, Me<sub>2</sub>CH, allyl, Bu, 3-butenyl; R<sub>1</sub> = H, Ac, EtCO, PhCH<sub>2</sub>CH<sub>2</sub>CO, Bz) were prepd. routinely. Thus, **16.beta.-ethylestradiol** 3-Me ether was heated with pyridine at 150.degree. to give I (R = Et; R<sub>1</sub> = H), which was acetylated to the diacetate and then selectively hydrolyzed with K<sub>2</sub>CO<sub>3</sub> in MeOH to I (R = Et, R<sub>1</sub> = Ac).

=> FIL REGISTRY

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STRUCTURE FILE UPDATES: 13 JUN 2003 HIGHEST RN 530739-23-2  
 DICTIONARY FILE UPDATES: 13 JUN 2003 HIGHEST RN 530739-23-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> \$ 62633-99-2/RN

L10 1 62633-99-2/RN

=> SET NOTICE 1 DISPLAY

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NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
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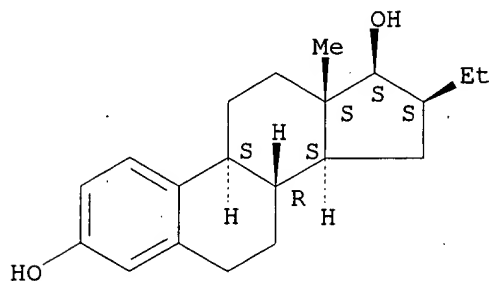
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L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS  
RN **62633-99-2** REGISTRY  
CN Estra-1,3,5(10)-triene-3,17-diol, 16-ethyl-, (16.beta.,17.beta.)- (9CI)  
(CA INDEX NAME)  
OTHER NAMES:  
CN 16.beta.-Ethylestra-3,17.beta.-diol  
CN 16.beta.-Ethylestradiol  
FS STEREOSEARCH  
MF C20 H28 O2  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, MEDLINE,  
USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

11 REFERENCES IN FILE CA (1957 TO DATE)  
11 REFERENCES IN FILE CAPLUS (1957 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 14:15:08 ON 14 JUN 2003)

09779331

FILE 'CAPLUS' ENTERED AT 14:15:21 ON 14 JUN 2003

L1 0 S JP 5365865/PN  
L2 0 S JP 65865/PN  
L3 0 S JP 51-140578/PN  
L4 1 S GB 1570597/PN  
L5 0 S 16BETA-ETHYLESTRADIOL  
L6 7 S 16 BETA-ETHYLESTRADIOL  
L7 0 S 16 BETA-N-BUTYLESTRADIOL  
L8 0 S 16 BETA-BUTYLESTRADIOL  
L9 1 S BUTYLESTRADIOL

FILE 'REGISTRY' ENTERED AT 14:26:20 ON 14 JUN 2003

L10 1 S 62633-99-2/RN  
SET NOTICE 1 DISPLAY  
SET NOTICE LOGIN DISPLAY

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:H

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
3.28	60.60

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-5.21

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 14:28:34 ON 14 JUN 2003